542401

(19) World Intellectual Property Organization International Bureau



1 (1881)

(43) International Publication Date 5 August 2004 (05.08.2004)

PCT

(10) International Publication Number WO 2004/065892 A1

- (51) International Patent Classification⁷: F42B 39/14
- F42D 5/045,
- (21) International Application Number:

PCT/GB2003/000293

- (22) International Filing Date: 17 January 2003 (17.01.2003)
- (25) Filing Language:

English

(26) Publication Language:

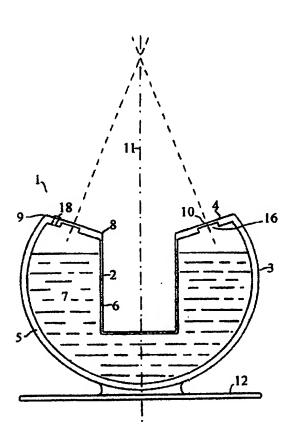
English

- (71) Applicant (for all designated States except US): PROJEC-TILE LIMITED [GB/GB]; 97-101 Dale Street, Liverpool L2 2JD (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): OGDEN, Ernest [GB/GB]; 20 Thirlmere Drive, Litherland, Liverpool L21 5JW (GB). MCKENZIE, John [GB/GB]; 8, North Road, Waterloo, Liverpool L22 ONS (GB).

- (74) Common Representative: MCKENZIE, John; 97-101 Dale Street, Liverpool L2 2JD (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: BLAST ATTENUATING, BLAST-DIRECTING AND EXTINGUISHING APPARATUS



(57) Abstract: An apparatus by which to attenuate, direct or extinguish the resultant effects of a blast or explosion. This includes the use of a spherical interior skinned apparatus (1) with an inner container (2) that will deform and/or rupture easily in the event of a blast or explosion therein. Membrane (16) rupture will occur on compression of fluid (7) and air initially directing fluid/material and debris in a less harmful direction. The apparatus (1) can be a fixture, re-usable and portable for on site location. The apparatus (1) will be constructed based on the anticipated force of blast or explosion. The apparatus (1) will be re-usable in certain environments such as in the event of disposal of several blast or explosive items at different locations. The inner walls, which will form the inner container (2), can be replaced in the event of a blast or explosion. The containment fluid (7) and air to be added at location or each application.

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.